Journal of Nuclear Materials 151 (1988) 348–350
North-Holland, Amsterdam

AUTHOR INDEX

Adachi, T., see Muromura 151 (1988) 318
Allen, G.C., see Griffiths 151 (1988) 307
Arai, Y., T. Iwai and T. Ohmichi, Chemical state of fission products in irradiated uranium carbide fuel 151 (1987) 63
Aruga, T., see Nakata 151 (1988) 301
Asano, M. and Y. Yasue, Thermochemical study of vaporization of sodium borosilicate glass melt containing tellurium 151 (1988) 181
Asundi, M.K., see Wadekar 151 (1988) 162
Azad, A.M., O.M. Sreedharan and J.B. Gnanamoorthy, Direct measurement of thermodynamic activities of metals in an AISI 304 stainless steel by calcium fluoride emf technique 151 (1988) 293

Ball, C.J., R.G. Blake, D.J. Cassidy and J.L. Woolfrey, Neutron irradiation effects in perovskite ($CaTiO_3$) 151 (1988) 151
Banerjee, S., see Wadekar 151 (1988) 162
Bechler, E., see Knoch 151 (1988) 219
Bendikov, V.I., see Zelenskij 151 (1987) 22
Bertone, P.C., The kinetics that govern the release of tritium from neutron-irradiated lithium oxide 151 (1988) 281
Bielska-Lewandowska, H., see Rullier-Albenque 151 (1988) 245
Blake, R.G., see Ball 151 (1988) 151
Bolt, H., A. Miyahara, M. Miyake and T. Yamamoto, Simulation of tokamak runaway-electron events 151 (1987) 48
Børgesen, P., see Scherzer 151 (1987) 84

Cassidy, D.J., see Ball 151 (1988) 151
Chen, T.-M.,S.M. Kauzlarich and J.D. Corbett, Reactions and products in the Cs–Zr–I–O system relevant to fission product chemistry – A review 151 (1988) 225
Chidester, K.M., see Matthews 151 (1988) 334
Corbett, J.D., see Chen 151 (1988) 225

Davis, J.W., see Haasz 151 (1987) 77

El-Genk, M.S., see Ross 151 (1988) 313
Enokido, Y., see Ukai 151 (1988) 209

Foster, J.P. and C.M. Mildrum, Correlation of Inconel X750 stress relaxation data obtained in thermal and fast neutron reactors 151 (1988) 135
Fouracre, R.A., see Wu 151 (1988) 140
Fujii, Y., see O'Hira 151 (1987) 34
Fukushima, S., see Ohmichi 151 (1987) 90

Gedeon, S., see Wu 151 (1988) 140
Gnanamoorthy, J.B., see Azad 151 (1988) 293
Griffiths, T.R., H.V.St.A. Hubbard, G.C. Allen and P.A. Tempest, A new method for the determination of x in UO_{2+x}: Optical absorption spectroscopy measurements 151 (1988) 307

Haasz, A.A. and J.W. Davis, Flux and energy dependence of radiation-enhanced sublimation of graphite (Letter to the Editors) 151 (1987) 77
Higashinakagawa, E., see Kawashima 151 (1987) 72
Hinatsu, Y., see Muromura 151 (1987) 55
Hirano, H., see Tanabe 151 (1987) 38
Hood, G.M. and R.J. Schultz, Defect recovery in electron irradiated α-Zr single crystals: A positron annihilation study 151 (1988) 172
Hosokawa, T., see Ukai 151 (1988) 209
Hoth, C.W., see Matthews 151 (1988) 334
Hubbard, H.V.St.A., see Griffiths 151 (1988) 307
Hwang, S.K. and G.P. Sabol, A new strain gage method for measuring the contractile strain ratio of Zircaloy tubing 151 (1988) 327

Imoto, S., see Tanabe 151 (1987) 38
Ioka, I. and S. Yoda, Measurements of the density profile in oxidized graphite by X-ray computed tomography 151 (1988) 202
Iwai, T., see Arai 151 (1987) 63

Katsuta, H., see Nagasaki 151 (1988) 189
Kauzlarich, S.M., see Chen 151 (1988) 225
Kawashima, J., K. Sato, R. Kuwae and E. Higashinakagawa, Zircaloy nodular corrosion analysis by an image processing technique 151 (1987) 72
Khazan, S.M., see Zelenskij 151 (1987) 22
Kleykamp, H., see Paschaol 151 (1987) 10
Knoch, H., K.A. Schwetz, E. Bechler and A. Lipp, On the pressureless sintering of europium hexaboride (Letter to the Editors) 151 (1988) 219
Kobiyama, M., see Nakata 151 (1988) 301
Kuwae, R., see Kawashima 151 (1987) 72

Journal of Nuclear Materials 151 (1988) 348–350
North-Holland, Amsterdam

AUTHOR INDEX

Adachi, T., see Muromura 151 (1988) 318
Allen, G.C., see Griffiths 151 (1988) 307
Arai, Y., T. Iwai and T. Ohmichi, Chemical state of fission products in irradiated uranium carbide fuel 151 (1987) 63
Aruga, T., see Nakata 151 (1988) 301
Asano, M. and Y. Yasue, Thermochemical study of vaporization of sodium borosilicate glass melt containing tellurium 151 (1988) 181
Asundi, M.K., see Wadekar 151 (1988) 162
Azad, A.M., O.M. Sreedharan and J.B. Gnanamoorthy, Direct measurement of thermodynamic activities of metals in an AISI 304 stainless steel by calcium fluoride emf technique 151 (1988) 293

Ball, C.J., R.G. Blake, D.J. Cassidy and J.L. Woolfrey, Neutron irradiation effects in perovskite ($CaTiO_3$) 151 (1988) 151
Banerjee, S., see Wadekar 151 (1988) 162
Bechler, E., see Knoch 151 (1988) 219
Bendikov, V.I., see Zelenskij 151 (1987) 22
Bertone, P.C., The kinetics that govern the release of tritium from neutron-irradiated lithium oxide 151 (1988) 281
Bielska-Lewandowska, H., see Rullier-Albenque 151 (1988) 245
Blake, R.G., see Ball 151 (1988) 151
Bolt, H., A. Miyahara, M. Miyake and T. Yamamoto, Simulation of tokamak runaway-electron events 151 (1987) 48
Børgesen, P., see Scherzer 151 (1987) 84

Cassidy, D.J., see Ball 151 (1988) 151
Chen, T.-M.,S.M. Kauzlarich and J.D. Corbett, Reactions and products in the Cs–Zr–I–O system relevant to fission product chemistry – A review 151 (1988) 225
Chidester, K.M., see Matthews 151 (1988) 334
Corbett, J.D., see Chen 151 (1988) 225

Davis, J.W., see Haasz 151 (1987) 77

El-Genk, M.S., see Ross 151 (1988) 313
Enokido, Y., see Ukai 151 (1988) 209

Foster, J.P. and C.M. Mildrum, Correlation of Inconel X750 stress relaxation data obtained in thermal and fast neutron reactors 151 (1988) 135
Fouracre, R.A., see Wu 151 (1988) 140
Fujii, Y., see O'Hira 151 (1987) 34
Fukushima, S., see Ohmichi 151 (1987) 90

Gedeon, S., see Wu 151 (1988) 140
Gnanamoorthy, J.B., see Azad 151 (1988) 293
Griffiths, T.R., H.V.St.A. Hubbard, G.C. Allen and P.A. Tempest, A new method for the determination of x in UO_{2+x}: Optical absorption spectroscopy measurements 151 (1988) 307

Haasz, A.A. and J.W. Davis, Flux and energy dependence of radiation-enhanced sublimation of graphite (Letter to the Editors) 151 (1987) 77
Higashinakagawa, E., see Kawashima 151 (1987) 72
Hinatsu, Y., see Muromura 151 (1987) 55
Hirano, H., see Tanabe 151 (1987) 38
Hood, G.M. and R.J. Schultz, Defect recovery in electron irradiated α-Zr single crystals: A positron annihilation study 151 (1988) 172
Hosokawa, T., see Ukai 151 (1988) 209
Hoth, C.W., see Matthews 151 (1988) 334
Hubbard, H.V.St.A., see Griffiths 151 (1988) 307
Hwang, S.K. and G.P. Sabol, A new strain gage method for measuring the contractile strain ratio of Zircaloy tubing 151 (1988) 327

Imoto, S., see Tanabe 151 (1987) 38
Ioka, I. and S. Yoda, Measurements of the density profile in oxidized graphite by X-ray computed tomography 151 (1988) 202
Iwai, T., see Arai 151 (1987) 63

Katsuta, H., see Nagasaki 151 (1988) 189
Kauzlarich, S.M., see Chen 151 (1988) 225
Kawashima, J., K. Sato, R. Kuwae and E. Higashinakagawa, Zircaloy nodular corrosion analysis by an image processing technique 151 (1987) 72
Khazan, S.M., see Zelenskij 151 (1987) 22
Kleykamp, H., see Paschaol 151 (1987) 10
Knoch, H., K.A. Schwetz, E. Bechler and A. Lipp, On the pressureless sintering of europium hexaboride (Letter to the Editors) 151 (1988) 219
Kobiyama, M., see Nakata 151 (1988) 301
Kuwae, R., see Kawashima 151 (1987) 72

Laguerie, C., see Saint-Martin 151 (1988) 112
Latgé, C., see Saint-Martin 151 (1988) 112
Lemaignan, C., see Schuster 151 (1988) 108
Lipp, A., see Knoch 151 (1988) 219

Maeda, A., see Ohmichi 151 (1987) 90
Mason, R.E., see Matthews 151 (1988) 334
Matera, R., see Ruedl 151 (1988) 238
Matsui, T. and K. Naito, Electrical conductivity measurement of gadolinia-doped (7.3 mol%) UO_2 (Letter to the Editors) 151 (1987) 86
Matthews, R.B., see Ross 151 (1988) 313
Matthews, R.B., K.M. Chidester, C.W. Hoth, R.E. Mason and R.L. Petty, Fabrication and testing of uranium nitride fuel for space power reactors 151 (1988) 334
Michaille, P., see Saint-Martin 151 (1988) 112
Migge, H., Estimation of free energies for Li_8SiO_6 and Li_4SiO_4 and calculation of the phase diagram of the Li–Si–O system 151 (1988) 101
Mildrum, C.M., see Foster 151 (1988) 135
Miyahara, A., see Bolt 151 (1987) 48
Miyake, M., see Bolt 151 (1987) 48
Möller, W., see Scherzer 151 (1987) 84
Müller, P., see Rullier-Albenque 151 (1988) 245
Muromura, T. and Y. Hinatsu, Fluorite type phase in nuclear waste ceramics with high zirconia and alumina contents 151 (1987) 55
Muromura, T., T. Adachi, H. Takeishi, Z. Yoshida, T. Yamamoto and K. Ueno, Metallic phases precipitated in UO_2 fuel. I. Phases in simulated fuel 151 (1988) 318
Murphy, S.M., Sink strengths in the presence of divacancies 151 (1988) 120

Nagai, S., Surface structural change of alumina induced by electron impact in CO_2, CO, O_2 and D_2O 151 (1988) 275
Nagasaki, T., R. Yamada, M. Saidoh and H. Katsuta, Simultaneous ion and gas driven permeation of deuterium through nickel 151 (1988) 189
Naito, K., see Matsui 151 (1987) 86
Nakajima, H., see Tsuji 151 (1987) 1
Nakata, K., S. Takamura, T. Aruga and M. Kobiyama, Damage distribution of heavy-ion irradiation in metals studied by elecrical resistivity measurement 151 (1988) 301
Neklyudov, I.M., see Zelenskij 151 (1987) 22
Nomura, M., see O'Hira 151 (1987) 34

O'Hira, S., Y. Shibuya, M. Nomura, Y. Fujii and M. Okamoto , Mass spectrometric determination of LiOH and Li_2CO_3 in Li_2O 151 (1987) 34
Ohmichi, T., see Arai 151 (1987) 63
Ohmichi, T., H. Takeshita, S. Fukushima and A. Maeda, Electrical conductivity of oxygen deficient urania–yttria solid solutions (Letter to the Editors) 151 (1987) 90
Okamoto, M., see O'Hira 151 (1987) 34

Paschaol, J.O.A., H. Kleykamp and F. Thümmler, Phase equilibria in the pseudoquaternary $BaO–UO_2–ZrO_2–MoO_2$ system 151 (1987) 10
Petty, R.L., see Matthews 151 (1988) 334
Presinger, D., see Scherzer 151 (1987) 84

Quéré, Y., see Rullier-Albenque 151 (1988) 245

Raman, V.V., see Wadekar 151 (1988) 162
Rogerson, A. and R.H. Zee, High fluence irradiation growth in single crystal zirconium at 553 K (Letter to the Editors) 151 (1987) 81
Ross, S.B., M.S. El-Genk and R.B. Matthews, Thermal conductivity correlation for uranium nitride fuel between 10 and 1923 K 151 (1988) 313
Ruedl, E., R. Matera and G. Valdrè, Microstructural evolution in long duration creep specimens of a Mn–Cr austenitic steel 151 (1988) 238
Rullier-Albenque, F., H. Bielska-Lewandowska, Y. Quéré, G. Wallner and P. Müller, Defect production rates in normal and in superconducting states 151 (1988) 245
Ruzhitskij, V.V., see Zelenskij 151 (1987) 22
Rybalko, V.F., see Zelenskij 151 (1987) 22

Sabol, G.P., see Hwang 151 (1988) 327
Saidoh, M., see Nagasaki 151 (1988) 189
Saint-Martin, C., C. Latgé, P. Michaille and C. Laguerie, Etude expérimentale de la cristallisation de l'hydrure de sodium dans un piège froid garni 151 (1988) 112
Sato, K., see Kawashima 151 (1987) 72
Scherzer, B.M.U., W. Möller, P. Børgesen and D. Presinger, Comment on the paper: "Plasma-driven permeation of deuterium in nickel" by R.A. Causey and M.I. Baskes (Letter to the Editors) 151 (1987) 84
Schultz, R.J., see Hood 151 (1988) 172
Schuster, I. and C. Lemaignan, Embrittlement, induced by fission recoils, of the inner surface of PWR fuel cladding – A simulation using heavy ions 151 (1988) 108
Schwetz, K.A., see Knoch 151 (1988) 219
Shibahara, I., see Ukai 151 (1988) 209
Shibuya, Y., see O'Hira 151 (1987) 34
Simon, D., Stability of irradiation-induced voids based on the cusp catastrophe 151 (1988) 269
Sreedharan, O.M., see Azad 151 (1988) 293

Takamura, S., see Nakata 151 (1988) 301
Takeishi, H., see Muromura 151 (1988) 318

Takeshita, H., see Ohmichi 151 (1987) 90
Tanabe, T., H. Hirano and S. Imoto, Re-emission and thermal desorption of deuterium implanted in Ni near room temperature 151 (1987) 38
Tedford, D.J., see Wu 151 (1988) 140
Tempest, P.A., P.M. Tucker and J.W. Tyler, Oxidation of UO_2 fuel pellets in air at 503 and 543 K studied using X-ray photoelectron spectroscopy and X-ray diffraction 151 (1988) 251
Tempest, P.A., see Griffiths 151 (1988) 307
Thümmler, F., see Paschaol 151 (1987) 10
Tsuji, H. and H. Nakajima, Effect of test temperature on tensile and fatigue properties of nickel-base heat-resistant alloys 151 (1987) 1
Tucker, P.M., see Tempest 151 (1988) 251
Tyler, J.W., see Tempest 151 (1988) 251

Ueno, K., see Muromura 151 (1988) 318
Ukai, S., T. Hosokawa, I. Shibahara and Y. Enokido, Evaluation of the fission gas release behavior from fast reactor mixed oxide fuel based on local concentration measurement of retained xenon 151 (1988) 209

Valdrè, G., see Ruedl 151 (1988) 238

Wadekar, S.L., V.V. Raman, S. Banerjee and M.K. Asundi, Structure–property correlation of Zr-base alloys 151 (1988) 162
Wallner, G., see Rullier-Albenque 151 (1988) 245
Woolfrey, J.L., see Ball 151 (1988) 151
Wu, S., S. Gedeon, R.A. Fouracre and D.J. Tedford, The effect of γ-irradiation on the electrical properties of epoxy resin systems 151 (1988) 140

Yamada, R., see Nagasaki 151 (1988) 189
Yamamoto, T., see Bolt 151 (1987) 48
Yamamoto, T., see Muromura 151 (1988) 318
Yasue, Y., see Asano 151 (1988) 181
Yoda, S., see Ioka 151 (1988) 202
Yoshida, Z., see Muromura 151 (1988) 318

Zee, R.H., see Rogerson 151 (1987) 81
Zelenskij, V.F., I.M. Neklyudov, V.V. Ruzhitskij, V.F. Rybalko, V.I. Bendikov and S.M. Khazan, Thermal desorption of helium from polycrystalline Ni irradiated to fluences ranging from 1×10^{17} He/cm^2 151 (1987) 22

Journal of Nuclear Materials 151 (1988) 351–355
North-Holland, Amsterdam

SUBJECT INDEX

Alloys *("Various" i.e. not listed elsewhere by name)*
Correlation of Inconel X750 stress relaxation data obtained in thermal and fast neutron reactors, J.P. Foster and C.M. Mildrum 151 (1988) 135

Aluminium, Aluminium Alloys and Compounds
Surface structural change of alumina induced by electron impact in CO_2, CO, O_2 and D_2O, S. Nagai 151 (1988) 275

Ceramics *("Various" i.e. not listed elsewhere by name)*
Simulation of tokamak runaway-electron events, H. Bolt, A. Miyahara, M. Miyake and T. Yamamoto 151 (1987) 48
Fluorite type phase in nuclear waste ceramics with high zirconia and alumina contents, T. Muromura and Y. Hinatsu 151 (1987) 55
Neutron irradiation effects in perovskite ($CaTiO_3$), C.J. Ball, R.G. Blake, D.J. Cassidy and J.L. Woolfrey 151 (1988) 151
On the pressureless sintering of europium hexaboride (Letter to the Editors), H. Knoch, K.A. Schwetz, E. Bechler and A. Lipp 151 (1988) 219
Surface structural change of alumina induced by electron impact in CO_2, CO, O_2 and D_2O, S. Nagai 151 (1988) 275

Cladding Materials
Embrittlement, induced by fission recoils, of the inner surface of PWR fuel cladding – A simulation using heavy ions, I. Schuster and C. Lemaignan 151 (1988) 108

Compatibility and Corrosion
Zircaloy nodular corrosion analysis by an image processing technique, J. Kawashima, K. Sato, R. Kuwae and E. Higashinakagawa 151 (1987) 72
Reactions and products in the Cs–Zr–I–O system relevant to fission product chemistry – A review, T.-M. Chen, S.M. Kauzlarich and J.D. Corbett 151 (1988) 225

Computer Calculations, including Modelling
Sink strengths in the presence of divacancies, S.M. Murphy 151 (1988) 120
Stability of irradiation-induced voids based on the cusp catastrophe, D. Simon 151 (1988) 269

Constitution
Phase equilibria in the pseudoquaternary $BaO–UO_2–ZrO_2–MoO_2$ system, J.O.A. Paschaol, H. Kleykamp and F. Thümmler 151 (1987) 10
Estimation of free energies for Li_8SiO_6 and Li_4SiO_4 and calculation of the phase diagram of the Li–Si–O system, H. Migge 151 (1988) 101
A new method for the determination of x in UO_{2+x}: Optical absorption spectroscopy measurements, T.R. Griffiths, H.V.St.A. Hubbard, G.C. Allen and P.A. Tempest 151 (1988) 307

Creep and Relaxation
Microstructural evolution in long duration creep specimens of a Mn–Cr austenitic steel, E. Ruedl, R. Matera and G. Valdrè 151 (1988) 238

Crystal Growth
Etude expérimentale de la cristallisation de l'hydrure de sodium dans un piège froid garni, C. Saint-Martin, C. Latgé, P. Michaille and C. Laguerie 151 (1988) 112

Defects and Defect Structures
Sink strengths in the presence of divacancies, S.M. Murphy 151 (1988) 120
Defect recovery in electron irradiated α-Zr single crystals: A positron annihilation study, G.M. Hood and R.J. Schultz 151 (1988) 172
Stability of irradiation-induced voids based on the cusp catastrophe, D. Simon 151 (1988) 269
Damage distribution of heavy-ion irradiation in metals studied by elecrical resistivity measurement, K. Nakata, S. Takamura, T. Aruga and M. Kobiyama 151 (1988) 301

Diffusion *(incl. Thermodiffusion)*
Thermal desorption of helium from polycrystalline Ni irradiated to fluences ranging from 1×10^{17} He/cm^2, V.F. Zelenskij, I.M. Neklyudov, V.V. Ruzhitskij, V.F. Rybalko, V.I. Bendikov and S.M. Khazan 151 (1987) 22

Simultaneous ion and gas driven permeation of deuterium through nickel, T. Nagasaki, R. Yamada, M. Saidoh and H. Katsuta 151 (1988) 189

Experimental Techniques
Direct measurement of thermodynamic activities of metals in an AISI 304 stainless steel by calcium fluoride emf technique, A.M. Azad, O.M. Sreedharan and J.B. Gnanamoorthy 151 (1988) 293
A new strain gage method for measuring the contractile strain ratio of Zircaloy tubing, S.K. Hwang and G.P. Sabol 151 (1988) 327

Fatigue and Fracture
Effect of test temperature on tensile and fatigue properties of nickel-base heat-resistant alloys , H. Tsuji and H. Nakajima 151 (1987) 1

Fission Products
Chemical state of fission products in irradiated uranium carbide fuel, Y. Arai, T. Iwai and T. Ohmichi 151 (1987) 63
Embrittlement, induced by fission recoils, of the inner surface of PWR fuel cladding – A simulation using heavy ions, I. Schuster and C. Lemaignan 151 (1988) 108
Evaluation of the fission gas release behavior from fast reactor mixed oxide fuel based on local concentration measurement of retained xenon, S. Ukai, T. Hosokawa, I. Shibahara and Y. Enokido 151 (1988) 209
Reactions and products in the Cs–Zr–I–O system relevant to fission product chemistry – A review, T.-M. Chen, S.M. Kauzlarich and J.D. Corbett 151 (1988) 225
Defect production rates in normal and in superconducting states, F. Rullier-Albenque, H. Bielska-Lewandowska, Y. Quéré, G. Wallner and P. Müller 151 (1988) 245

Fuels and Fuel Elements: Fast Reactors
Phase equilibria in the pseudoquaternary $BaO–UO_2–ZrO_2–MoO_2$ system, J.O.A. Paschaol, H. Kleykamp and F. Thümmler 151 (1987) 10
Correlation of Inconel X750 stress relaxation data obtained in thermal and fast neutron reactors, J.P. Foster and C.M. Mildrum 151 (1988) 135
Evaluation of the fission gas release behavior from fast reactor mixed oxide fuel based on local concentration measurement of retained xenon, S. Ukai, T. Hosokawa, I. Shibahara and Y. Enokido 151 (1988) 209
On the pressureless sintering of europium hexaboride (Letter to the Editors), H. Knoch, K.A. Schwetz, E. Bechler and A. Lipp 151 (1988) 219

Fuels and Fuel Elements: High-Temperature Reactors
Phase equilibria in the pseudoquaternary $BaO–UO_2–ZrO_2–MoO_2$ system, J.O.A. Paschaol, H. Kleykamp and F. Thümmler 151 (1987) 10

Fuel and Fuel Elements: Thermal Reactors
Phase equilibria in the pseudoquaternary $BaO–UO_2–ZrO_2–MoO_2$ system, J.O.A. Paschaol, H. Kleykamp and F. Thümmler 151 (1987) 10
Correlation of Inconel X750 stress relaxation data obtained in thermal and fast neutron reactors, J.P. Foster and C.M. Mildrum 151 (1988) 135

Fusion Reactors: Blanket Materials *(incl. Lithium)*
Mass spectrometric determination of LiOH and Li_2CO_3 in Li_2O, S. O'Hira, Y. Shibuya, M. Nomura, Y. Fujii and M. Okamoto
Estimation of free energies for Li_8SiO_6 and Li_4SiO_4 and calculation of the phase diagram of the Li–Si–O system, H. Migge 151 (1988) 101
The kinetics that govern the release of tritium from neutron-irradiated lithium oxide, P.C. Bertone 151 (1988) 281

Fusion Reactors: Surface Effects
Simulation of tokamak runaway-electron events, H. Bolt, A. Miyahara, M. Miyake and T. Yamamoto 151 (1987) 48
Comment on the paper: "Plasma-driven permeation of deuterium in nickel" by R.A. Causey and M.I. Baskes (Letter to the Editors), B.M.U. Scherzer, W. Möller, P. Børgesen and D. Presinger 151 (1987) 84
Surface structural change of alumina induced by electron impact in CO_2, CO, O_2 and D_2O, S. Nagai 151 (1988) 275

Fusion Reactors: Structural Materials
Microstructural evolution in long duration creep specimens of a Mn–Cr austenitic steel, E. Ruedl, R. Matera and G. Valdrè 151 (1988) 238

Gases *(excl. Tritium)* in Metals, Alloys and Ceramics
Thermal desorption of helium from polycrystalline Ni irradiated to fluences ranging from 1×10^{17} He/cm^2, V.F. Zelenskij, I.M. Neklyudov, V.V. Ruzhitskij, V.F. Rybalko, V.I. Bendikov and S.M. Khazan 151 (1987) 22
Re-emission and thermal desorption of deuterium implanted in Ni near room temperature, T. Tanabe, H. Hirano and S. Imoto 151 (1987) 38

Comment on the paper: "Plasma-driven permeation of deuterium in nickel" by R.A. Causey and M.I. Baskes (Letter to the Editors), B.M.U. Scherzer, W. Möller, P. Børgesen and D. Presinger 151 (1987) 84
Fabrication and testing of uranium nitride fuel for space power reactors, R.B. Matthews, K.M. Chidester, C.W. Hoth, R.E. Mason and R.L. Petty 151 (1988) 334

Glasses and Amorphous Materials
Thermochemical study of vaporization of sodium borosilicate glass melt containing tellurium, M. Asano and Y. Yasue 151 (1988) 181

Graphite and Carbon
Simulation of tokamak runaway-electron events, H. Bolt, A. Miyahara, M. Miyake and T. Yamamoto 151 (1987) 48
Flux and energy dependence of radiation-enhanced sublimation of graphite (Letter to the Editors), A.A. Haasz and J.W. Davis 151 (1987) 77
Measurements of the density profile in oxidized graphite by X-ray computed tomography, I. Ioka and S. Yoda 151 (1988) 202

Hydrogen and Hydrides
Etude expérimentale de la cristallisation de l'hydrure de sodium dans un piège froid garni, C. Saint-Martin, C. Latgé, P. Michaille and C. Laguerie 151 (1988) 112

Irradiation Effects *(excl. Swelling and Voids)*
Simulation of tokamak runaway-electron events, H. Bolt, A. Miyahara, M. Miyake and T. Yamamoto 151 (1987) 48
Chemical state of fission products in irradiated uranium carbide fuel, Y. Arai, T. Iwai and T. Ohmichi 151 (1987) 63
Flux and energy dependence of radiation-enhanced sublimation of graphite (Letter to the Editors), A.A. Haasz and J.W. Davis 151 (1987) 77
High fluence irradiation growth in single crystal zirconium at 553 K (Letter to the Editors), A. Rogerson and R.H. Zee 151 (1987) 81
Embrittlement, induced by fission recoils, of the inner surface of PWR fuel cladding – A simulation using heavy ions, I. Schuster and C. Lemaignan 151 (1988) 108
The effect of γ-irradiation on the electrical properties of epoxy resin systems, S. Wu, S. Gedeon, R.A. Fouracre and D.J. Tedford 151 (1988) 140
Neutron irradiation effects in perovskite ($CaTiO_3$), C.J. Ball, R.G. Blake, D.J. Cassidy and J.L. Woolfrey 151 (1988) 151
Defect recovery in electron irradiated α-Zr single crystals: A positron annihilation study, G.M. Hood and R.J. Schultz 151 (1988) 172
Simultaneous ion and gas driven permeation of deuterium through nickel, T. Nagasaki, R. Yamada, M. Saidoh and H. Katsuta 151 (1988) 189
Defect production rates in normal and in superconducting states, F. Rullier-Albenque, H. Bielska-Lewandowska, Y. Quéré, G. Wallner and P. Müller 151 (1988) 245
Surface structural change of alumina induced by electron impact in CO_2, CO, O_2 and D_2O, S. Nagai 151 (1988) 275
The kinetics that govern the release of tritium from neutron-irradiated lithium oxide, P.C. Bertone 151 (1988) 281
Damage distribution of heavy-ion irradiation in metals studied by elecrical resistivity measurement, K. Nakata, S. Takamura, T. Aruga and M. Kobiyama 151 (1988) 301
Fabrication and testing of uranium nitride fuel for space power reactors, R.B. Matthews, K.M. Chidester, C.W. Hoth, R.E. Mason and R.L. Petty 151 (1988) 334

Kinetics
Comment on the paper: "Plasma-driven permeation of deuterium in nickel" by R.A. Causey and M.I. Baskes (Letter to the Editors), B.M.U. Scherzer, W. Möller, P. Børgesen and D. Presinger 151 (1987) 84
The kinetics that govern the release of tritium from neutron-irradiated lithium oxide, P.C. Bertone 151 (1988) 281

Mechanical Properties
Effect of test temperature on tensile and fatigue properties of nickel-base heat-resistant alloys , H. Tsuji and H. Nakajima 151 (1987) 1
Correlation of Inconel X750 stress relaxation data obtained in thermal and fast neutron reactors, J.P. Foster and C.M. Mildrum 151 (1988) 135
Structure–property correlation of Zr-base alloys, S.L. Wadekar, V.V. Raman, S. Banerjee and M.K. Asundi 151 (1988) 162
A new strain gage method for measuring the contractile strain ratio of Zircaloy tubing, S.K. Hwang and G.P. Sabol 151 (1988) 327

Microstructure *(incl. Textures)*
Microstructural evolution in long duration creep specimens of a Mn–Cr austenitic steel, E. Ruedl, R. Matera and G. Valdrè 151 (1988) 238
Fabrication and testing of uranium nitride fuel for space power reactors, R.B. Matthews, K.M. Chidester, C.W. Hoth, R.E. Mason and R.L. Petty 151 (1988) 334

Nuclear Fuels and Elements *(general)*
Thermal conductivity correlation for uranium nitride fuel between 10 and 1923 K, S.B. Ross, M.S. El-Genk and R.B. Matthews 151 (1988) 313

Physical Properties
Electrical conductivity measurement of gadolinia-doped (7.3 mol%) UO_2 (Letter to the Editors), T. Matsui and K. Naito 151 (1987) 86
Electrical conductivity of oxygen deficient urania–yttria solid solutions (Letter to the Editors), T. Ohmichi, H. Takeshita, S. Fukushima and A. Maeda 151 (1987) 90
The effect of γ-irradiation on the electrical properties of epoxy resin systems, S. Wu, S. Gedeon, R.A. Fouracre and D.J. Tedford 151 (1988) 140
Structure–property correlation of Zr-base alloys, S.L. Wadekar, V.V. Raman, S. Banerjee and M.K. Asundi 151 (1988) 162
Measurements of the density profile in oxidized graphite by X-ray computed tomography, I. Ioka and S. Yoda 151 (1988) 202
Damage distribution of heavy-ion irradiation in metals studied by elecrical resistivity measurement, K. Nakata, S. Takamura, T. Aruga and M. Kobiyama 151 (1988) 301

Powder Processes and Products
On the pressureless sintering of europium hexaboride (Letter to the Editors), H. Knoch, K.A. Schwetz, E. Bechler and A. Lipp 151 (1988) 219

Recrystallization, Recovery and Grain Growth
Structure–property correlation of Zr-base alloys, S.L. Wadekar, V.V. Raman, S. Banerjee and M.K. Asundi 151 (1988) 162

Sodium
Etude expérimentale de la cristallisation de l'hydrure de sodium dans un piège froid garni, C. Saint-Martin, C. Latgé, P. Michaille and C. Laguerie 151 (1988) 112

Steels
Microstructural evolution in long duration creep specimens of a Mn–Cr austenitic steel, E. Ruedl, R. Matera and G. Valdrè 151 (1988) 238
Direct measurement of thermodynamic activities of metals in an AISI 304 stainless steel by calcium fluoride emf technique, A.M. Azad, O.M. Sreedharan and J.B. Gnanamoorthy 151 (1988) 293

Structural Materials
Effect of test temperature on tensile and fatigue properties of nickel-base heat-resistant alloys , H. Tsuji and H. Nakajima 151 (1987) 1

Superconductors *(Radiation Effects)*
Defect production rates in normal and in superconducting states, F. Rullier-Albenque, H. Bielska-Lewandowska, Y. Quéré, G. Wallner and P. Müller 151 (1988) 245

Swelling
Fabrication and testing of uranium nitride fuel for space power reactors, R.B. Matthews, K.M. Chidester, C.W. Hoth, R.E. Mason and R.L. Petty 151 (1988) 334

Thermodynamic Properties
Estimation of free energies for Li_8SiO_6 and Li_4SiO_4 and calculation of the phase diagram of the Li–Si–O system, H. Migge 151 (1988) 101
Thermochemical study of vaporization of sodium borosilicate glass melt containing tellurium, M. Asano and Y. Yasue 151 (1988) 181
Direct measurement of thermodynamic activities of metals in an AISI 304 stainless steel by calcium fluoride emf technique, A.M. Azad, O.M. Sreedharan and J.B. Gnanamoorthy 151 (1988) 293
Metallic phases precipitated in UO_2 fuel. I. Phases in simulated fuel, T. Muromura, T. Adachi, H. Takeishi, Z. Yoshida, T. Yamamoto and K. Ueno 151 (1988) 318

Thermophysical Properties
Re-emission and thermal desorption of deuterium implanted in Ni near room temperature, T. Tanabe, H. Hirano and S. Imoto 151 (1987) 38
Flux and energy dependence of radiation-enhanced sublimation of graphite (Letter to the Editors), A.A. Haasz and J.W. Davis 151 (1987) 77
Defect production rates in normal and in superconducting states, F. Rullier-Albenque, H. Bielska-Lewandowska, Y. Quéré, G. Wallner and P. Müller 151 (1988) 245
Thermal conductivity correlation for uranium nitride fuel between 10 and 1923 K, S.B. Ross, M.S. El-Genk and R.B. Matthews 151 (1988) 313

Tritium
The kinetics that govern the release of tritium from neutron-irradiated lithium oxide, P.C. Bertone 151 (1988) 281

Uranium Ceramics
Phase equilibria in the pseudoquaternary $BaO-UO_2-ZrO_2-MoO_2$ system, J.O.A. Paschaol, H. Kleykamp and F. Thümmler 151 (1987) 10
Chemical state of fission products in irradiated uranium carbide fuel, Y. Arai, T. Iwai and T. Ohmichi 151 (1987) 63
Electrical conductivity measurement of gadolinia-doped (7.3 mol%) UO_2 (Letter to the Editors), T. Matsui and K. Naito 151 (1987) 86
Electrical conductivity of oxygen deficient urania–yttria solid solutions (Letter to the Editors), T. Ohmichi, H. Takeshita, S. Fukushima and A. Maeda 151 (1987) 90
Evaluation of the fission gas release behavior from fast reactor mixed oxide fuel based on local concentration measurement of retained xenon, S. Ukai, T. Hosokawa, I. Shibahara and Y. Enokido 151 (1988) 209
Oxidation of UO_2 fuel pellets in air at 503 and 543 K studied using X-ray photoelectron spectroscopy and X-ray diffraction, P.A. Tempest, P.M. Tucker and J.W. Tyler 151 (1988) 251
A new method for the determination of x in UO_{2+x}: Optical absorption spectroscopy measurements, T.R. Griffiths, H.V.St.A. Hubbard, G.C. Allen and P.A. Tempest 151 (1988) 307
Thermal conductivity correlation for uranium nitride fuel between 10 and 1923 K, S.B. Ross, M.S. El-Genk and R.B. Matthews 151 (1988) 313
Metallic phases precipitated in UO_2 fuel. I. Phases in simulated fuel, T. Muromura, T. Adachi, H. Takeishi, Z. Yoshida, T. Yamamoto and K. Ueno 151 (1988) 318
Fabrication and testing of uranium nitride fuel for space power reactors, R.B. Matthews, K.M. Chidester, C.W. Hoth, R.E. Mason and R.L. Petty 151 (1988) 334

Void Formation
Stability of irradiation-induced voids based on the cusp catastrophe, D. Simon 151 (1988) 269

Wastes *(Radioactive)*
Fluorite type phase in nuclear waste ceramics with high zirconia and alumina contents, T. Muromura and Y. Hinatsu 151 (1987) 55

Zirconium, Zirconium Alloys and Compounds
Zircaloy nodular corrosion analysis by an image processing technique, J. Kawashima, K. Sato, R. Kuwae and E. Higashinakagawa 151 (1987) 72
High fluence irradiation growth in single crystal zirconium at 553 K (Letter to the Editors), A. Rogerson and R.H. Zee 151 (1987) 81
Embrittlement, induced by fission recoils, of the inner surface of PWR fuel cladding – A simulation using heavy ions, I. Schuster and C. Lemaignan 151 (1988) 108
Structure–property correlation of Zr-base alloys, S.L. Wadekar, V.V. Raman, S. Banerjee and M.K. Asundi 151 (1988) 162
Defect recovery in electron irradiated α-Zr single crystals: A positron annihilation study, G.M. Hood and R.J. Schultz 151 (1988) 172
Reactions and products in the Cs–Zr–I–O system relevant to fission product chemistry – A review, T.-M. Chen, S.M. Kauzlarich and J.D. Corbett 151 (1988) 225
A new strain gage method for measuring the contractile strain ratio of Zircaloy tubing, S.K. Hwang and G.P. Sabol 151 (1988) 327